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IN THE CLAIMS

Please cancel claims 25-30, and 34 without prejudice to the prosecution thereof in a continuing application.

Please amend the following claims:

31. (Amended) An isolated soluble receptor polypeptide comprising a sequence of amino acid residues as shown in SEQ ID NO:6, wherein the soluble receptor polypeptide forms a heterodimeric or multimeric receptor complex; and

wherein the heterodimeric or multimeric receptor complex binds a ligand comprising a polypeptide of SEQ ID NO:10 or SEQ ID NO:47, or antagonizes the ligand activity.

35. (Amended) An isolated heterodimeric or multimeric soluble receptor complex comprising soluble receptor subunits, wherein at least one of soluble receptor subunits comprises a soluble receptor polypeptide comprising a sequence of amino acid residues as shown in SEQ ID NO:6.

36. (Amended) An isolated heterodimeric or multimeric soluble receptor complex according to claim 35, further comprising a soluble Class I cytokine receptor polypeptide.

37. (Amended) An isolated heterodimeric or multimeric soluble receptor complex according to claim 35, further comprising a soluble IL-2R γ receptor polypeptide (SEQ ID NO:4) or a soluble IL-13 α' receptor polypeptide (SEQ ID NO:82).

Please add the following new claims:

48. An isolated heterodimeric receptor complex comprising two soluble receptor subunits, wherein the first soluble receptor subunit consists of a soluble receptor polypeptide comprising a sequence of amino acid residues as shown in SEQ ID NO:6, and the second

receptor subunit consists of a soluble receptor polypeptide comprising soluble IL-2R γ receptor polypeptide (SEQ ID NO:4).

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49. An isolated heterodimeric receptor complex according to claim 48, wherein the heterodimeric receptor complex binds a ligand comprising a polypeptide of SEQ ID NO:10 or SEQ ID NO:47, or antagonizes the ligand activity.

50. An isolated heterodimeric receptor complex according to claim 48, wherein at least one of the soluble receptor subunits further comprises an affinity tag, label, chemical moiety, toxin, biotin/avidin label, radionuclide, enzyme, substrate, cofactor, inhibitor, fluorescent marker, chemiluminescent marker, toxin, cytotoxic molecule or an immunoglobulin Fc domain.

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51. An isolated heterodimeric or multimeric receptor soluble complex according to claim 35, wherein the soluble receptor complex further comprises an affinity tag, label, chemical moiety, toxin, biotin/avidin label, radionuclide, enzyme, substrate, cofactor, inhibitor, fluorescent marker, chemiluminescent marker, toxin, cytotoxic molecule or an immunoglobulin Fc domain.

52. An isolated soluble receptor polypeptide according to claim 31, wherein the soluble receptor polypeptide further comprises an affinity tag, label, chemical moiety, toxin, biotin/avidin label, radionuclide, enzyme, substrate, cofactor, inhibitor, fluorescent marker, chemiluminescent marker, toxin, cytotoxic molecule or an immunoglobulin Fc domain.

53. A method of using a heterodimeric or multimeric receptor complex to detect a natural ligand from lymphoid cells comprising:

Isolating a heterodimeric or multimeric receptor complex comprising the amino acid sequence as shown in SEQ ID NO:6; and

exposing the heterodimeric or multimeric receptor complex to activated CD3+ selected human T-cell conditioned media, and

wherein the heterodimeric or multimeric receptor complex exhibits cell proliferation activity or signal transduction activity when exposed to activated CD3+ selected human T-cell conditioned media; and thereby

detecting the natural ligand.

54. A method of using a heterodimeric or multimeric receptor complex according to claim 53, wherein isolated heterodimeric or multimeric receptor complex further comprises a soluble IL-2R γ receptor polypeptide amino acid sequence as shown in SEQ ID NO:4.

55. A method of using a heterodimeric or multimeric receptor complex according to claim 54, further comprising

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isolating the heterodimeric or multimeric receptor complex comprising SEQ ID NO:6 and SEQ ID NO:4 to use as an antagonist to competitively inhibit the cell proliferation or signal transduction activity of the natural ligand from lymphoid cells.

56. A method according to claim 55, wherein the ligand comprises a polypeptide of SEQ ID NO:10 or SEQ ID NO:47.

57. A method of using a heterodimeric or multimeric receptor complex to detect a natural ligand from lymphoid cells comprising:

transfected a cell with a vector or vectors comprising a transcription promoter; DNA segments encoding a heterodimeric or multimeric receptor complex comprising the amino acid sequence as shown in SEQ ID NO:6; and a transcription terminator, wherein the promoter is operably linked to the DNA segment, and the DNA segment is operably linked to the transcription terminator; and wherein the cell expresses the polypeptide encoded by the DNA sequence; and

exposing the cell expressing the heterodimeric or multimeric receptor complex to activated CD3+ selected human T-cell conditioned media,

wherein the heterodimeric or multimeric receptor complex exhibits cell proliferation or signal transduction activity when exposed to activated CD3+ selected human T-cell conditioned media; and thereby

detecting the natural ligand.

58. A method of using a heterodimeric or multimeric receptor complex according to claim 57, wherein the DNA segments further encode a soluble IL-2R γ receptor polypeptide amino acid sequence as shown in SEQ ID NO:4.

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59. A method of using a polypeptide according to claim 58, further comprising isolating a heterodimeric or multimeric receptor complex comprising SEQ ID NO:6 and SEQ ID NO:4 to use as an antagonist to competitively inhibit the cell proliferation or signal transduction activity of the natural ligand from lymphoid cells.

60. A method according to claim 59, wherein the ligand comprises a polypeptide of SEQ ID NO:10 or SEQ ID NO:47.
